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Susan Zazzali
Environmental Engineer
Region VIII, Montana Office
301 S. Park, Drawer 10096
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MONTANA OFFICE

Dear Susan:

This letter describes the sampling sites and analytical parameters which will be used for sampling to further investigate the underground water release(s) from the Asarco East Helena Smelter Site plant water circuit. The initial sampling round provided characterization of major ions and metals in the area surrounding the suspected release(s). The sampling proposed here will provide further characterization at specific monitoring well locations for a reduced number of parameters. The wells to be sampled include:

DH-9	Monitoring Well
DH-23	Monitoring Well
DH-16	Monitoring Well
DH-24	Monitoring Well
DH-6	Monitoring Well
DH-10A	Monitoring Well

A table listing analytical parameters, analytical methods and detection limits is attached. These samples will be submitted to the Asarco Salt Lake City Laboratory. Sampling will be on a monthly basis and will be conducted during the third week of March and April, 1998. Post RI/FS sampling of all wells will be conducted in May, 1998. Please give either Jon Nickel or me a call if you have any questions or comments.

Sincerely,

Bill Thompson
Senior Hydrogeologist

c: Jon Nickel, Asarco East Helena
David Rise, Montana DEQ
Brian Antonioli, Tetra Tech EMI

**TABLE 1. PARAMETERS, ANALYTICAL METHODS, AND DETECTION
LIMITS FOR SAMPLING
INVESTIGATION OF PLANT WATER RELEASE**

Parameter	Method	Reporting Limit (mg/L)	Frequency
pH	field analyzed	--	monthly
Specific Conductivity	field analyzed	--	monthly
Temperature	field analyzed only	--	monthly
Dissolved Oxygen	field analyzed only		monthly
Chloride	300.0	5	monthly
Sulfate	9036	5	monthly
TDS	160.1	10	monthly
METALS			monthly
Arsenic (As)	6020 ICP/MS	0.003	monthly
Barium (Ba)	6020 ICP/MS	0.005	monthly
Cadmium (Cd)	6020 ICP/MS	0.0001	monthly
Copper (Cu)	6020 ICP/MS	0.001	monthly
Chromium (Cr)	6020 ICP/MS	0.001	monthly
Lead (Pb)	6020 ICP/MS	0.003	monthly
Selenium (Se)	6020 ICP/MS	0.001	monthly
Silver (Ag)	6020 ICP/MS	0.003	monthly
Zinc (Zn)	6020 ICP/MS	0.01	monthly